Physical Properties of the Soils

Geneva County, Alabama

NOTE: Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

		I	Ι	I	Ι	l	T	I .		Erosi	on fac	tors	Wind	
Map symbol	Depth	Sand	Silt	Clay			Available		Organic				erodi-	
and soil name					bulk		water		matter				bility	
	 	 	[[[[density	(Ksat)	capacity	bility		Kw	Kf	T	group	index
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct	¦		¦		
AaB:	 	 	 	 	 	 		 		1	 	l I		1
Alaga	I 0-6	·		I 2-12	11.60-1.75	5.95-19.98	10.05-0.09	I 0.0-2.9	0.5-3.0	i .10	1.10	I 5	I 2	i 134
. 5.	6-99	i	i	2-12	1.60-1.75	5.95-19.98	0.05-0.09	0.0-2.9	0.0-0.5	1.10	.10	İ	İ	İ
ApA:	 	 	 	 	 	 		 				 		
Alpin	0-3			1 1-12	1 . 35–1 . 55	1.98-5.95	10.05-0.10	1 0.0-2.9	0.0-2.0	1.10	1.10	1 5	1 1	1 180
	3-54					5.95-19.98			0.0-0.5	1.10	1.10		<u> </u>	
	54-99	i	i				0.06-0.09		0.0-0.5	1.10	.10	İ	İ	i
ArA:	 	 	[[1
Ardilla	I 0-9			4-17	11.30-1.70	1.98-5.95	0.10-0.15	0.0-2.9	0.5-2.0	.24	.24	I 5	i 3	I 86
	9-30	·	·	I 18-35	1.40-1.60	0.57-1.98	0.10-0.14	0.0-2.9		1.28	.28	İ	i	i
	30-60	i	j			0.20-0.57			i	.28	.28	İ	į	į
Bb:	 	 	 	 	 	 		 				 		
Bibb	I 0-12	·	·	I 2-18	11.40-1.65	0.57-1.98	10.15-0.20	0.0-2.9	1.0-3.0	1 .28	1.28	I 5	I 5	I 56
	12-60	i	i	2-18	1.45-1.75	0.57-1.98	0.10-0.20	0.0-2.9	0.5-1.0	.37	.37	İ	į	į
Osier	I I 0-8		 	 10-15	 1.35-1.60	 5.95-19.98	10.10-0.15	 0.0-2.9	1 2.0-5.0	1.15	1.15	I I 5	3	I 86
	8-48	·	·	1-10	11.40-1.60	5.95-19.98	0.03-0.10	0.0-2.9	i	.10	1.10	i	İ	i
	48-75	i	i	2-5	1.40-1.60	19.98-19.98	0.02-0.05	0.0-2.9		.05	.05	İ	į	İ
BK:	 	 	 	 	 	 	 	 				 		
Bigbee	0-17			4-10	1.40-1.50	5.95-19.98	0.05-0.10	0.0-2.9	0.5-2.0	.10	.10	5		
-	17-80			1-10	1.40-1.50	5.95-19.98	0.05-0.08	0.0-2.9		.17	.17			
Kalmia	I I 0-14		 	4-12	 1.60-1.75	 1.98-5.95	10.06-0.10	I I 0.0-2.9	0.5-2.0	1 .15	 .15	I I 5	1 2	1 134
	14-32			18-35	1.40-1.60	0.57-1.98	0.12-0.16	0.0-2.9		.24	.24	ĺ	İ	İ
	32-60			2-10	1.60-1.75	5.95-19.98	0.03-0.06	0.0-2.9		.10	.10	İ		İ
Eunola	 0-10			1 10-20	 1.35-1.65	 1.98-5.95	0.10-0.14	0.0-2.9	0.5-2.0	1 .20	1 .20	 5	3	86
	10-26	i		18-35	1.35-1.65	0.57-1.98	0.12-0.17	0.0-2.9	0.2-1.0	.28	.28			
	26-52			18-45	1.30-1.60	0.57-1.98	0.12-0.16	0.0-2.9	0.0-0.5	.32	.32	I		
	52-56	·		8-25	1.35-1.65	1.98-5.95	0.10-0.16	0.0-2.9	0.0-0.5	.24	.24			
	56-65	·		2-11	1.45-1.75	5.95-19.98	10.02-0.06	0.0-2.9	0.0-0.5	1 .20	.20	I		1

Physical Properties of the Soils, cont.

Geneva County, Alabama

Map symbol	 Depth	 Sand	 Silt	 Clay		bility	Available water capacity	extensi-	Organic matter	Erosion factor			erodi-	Wind erodi-
and soil name 	 	 	 		bulk density					 Kw 	 Kf 		bility group 	bility index
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct	<u> </u>		i —		į
BoB:	 			 	 		 	 	 			 		
Bonifay	0-57			6-12	1.50-1.60	5.95-19.98	0.05-0.10	0.0-2.9	0.5-3.0	1.10	.10	5	2	134
	57-63					0.57-1.98				1.24	.24			
	63-73			20-45	1.60-1.70	0.20-0.57	0.10-0.15	0.0-2.9	0.0-0.5	.24	.24			
By:]				
Byars	0-13			15-35	1.20-1.50	0.57-1.98	0.15-0.20	0.0-2.9	2.0-9.0	1.37	.37	5	6	48
	13-43			35-60	1.30-1.60	0.06-0.20	0.14-0.18	3.0-5.9	0.5-1.0	1.32	.32			
	43-73			35-60	1.30-1.60	0.06-0.20	0.14-0.18	3.0-5.9	0.0-0.5	1.32	.32			
	73-79								0.0-0.5					
Cb:	 			 		 	 	 				 		
Chastain	0-5			15-35	1.20-1.40	0.20-0.57	0.12-0.18	3.0-5.9	1.0-6.0	1.32	1.32	4	5	56
	5-52			35-60	1.30-1.50	0.06-0.20	0.12-0.16	3.0-5.9	1.0-3.0	.37	.37			
	52-72			2-10	1.50-1.70	5.95-19.98	0.03-0.06	0.0-2.9	1.0-3.0	1.10	.10			
Bibb	 0-12			2-18	 1.40-1.65	 0.57-1.98	 0.15-0.20	l l 0.0-2.9	1 1.0-3.0	1 .28	1 .28	I I 5	I I 5	I 56
	12-60	i	i	2-18	1.45-1.75	0.57-1.98	0.10-0.20	0.0-2.9	0.5-1.0	.37	.37	İ	İ	İ
DoA:]]	
Dothan	I 0-13			i 10-18	11.30-1.70	1.98-5.95	0.08-0.13	0.0-2.9	0.5-1.0	.24	.24	I 5	i 3	I 86
	13-33					0.57-1.98				1.28	1.28			
	33-60	i	i			0.20-0.57			i		1.28	i	İ	i
	İ	İ	İ	į	į į	I	İ	İ	İ	İ	İ	İ	İ	İ
DoB:														
Dothan	0-13					1.98-5.95		•	0.5-1.0	1.24	.24	5	3	86
	13-33					0.57-1.98				1.28		!		
	33-60 			18-40 	1.45-1.70 	0.20-0.57 	0.08-0.12 	0.0-2.9 		1 .28	1 .28	l I		
DoC:	į	İ	İ	i	i i	İ			i	İ	İ	i	İ	i
Dothan	0-13					1.98-5.95				1.24	1.24	5	3	86
	13-33					0.57-1.98				1.28	1.28			
	33-60			18-40	1.45-1.70	0.20-0.57	0.08-0.12	0.0-2.9		1 .28	.28	 		
EsB:	İ		İ	İ	İ	İ				İ	i	i		İ
Esto	0-8				1	5.95-19.98			0.5-1.0	.17	.17	5	2	134
	8-13					0.57-1.98		•	0.5-1.0	1.32	1.32			
	13-62			35-60	1.30-1.55	0.06-0.20	0.12-0.18	3.0-5.9	0.0-0.5	1.32	1 .32			
EsC:	! 			İ			! 	! 						
Esto	0-8					5.95-19.98		•	0.5-1.0	.17	.17	5	2	134
	8-13					0.57-1.98			0.5-1.0	1.32	.32			
	13-62			35-60	1.30-1.55	0.06-0.20	0.12-0.18	3.0-5.9	0.0-0.5	1.32	.32			
					[l							

Physical Properties of the Soils, cont.

Geneva County, Alabama

Eu: Eunola) -10	 Pct	 Pct	 	bulk density 	-	water capacity			 Kw	 Kf		bility	
Eu: Eunola) -10	Pct	Pct							1	I	i	bility group	
Eunola	1		-	Pct	g/cc	In/hr	In/in	Pct	Pct	' ====== 	' 		' 	'
10	1	i	i											
26					1.35-1.65		0.10-0.14		0.5-2.0	.20	.20	5	3	86
52	0-26					0.57-1.98			0.2-1.0	.28	.28			
FuB: 56 Fuquay 0 34	5 - 52					0.57-1.98			0.0-0.5	.32	.32			
FuB: 0 34 45 96						1.98-5.95			0.0 0.0	.24	.24			
Fuquay 0 34 45 96 5 11 KaA: Kalmia 0	6-65			2-11	1.45-1.75	5.95-19.98	0.02-0.06	0.0-2.9	0.0-0.5	.20	.20			
Grady		i		 	 				 			 		
Grady	0-34	i		2-10	1.60-1.70	5.95-19.98	0.04-0.09	0.0-2.9	0.5-2.0	.15	.15	5	2	134
96	1-45 i			10-35	1.40-1.60	0.57-1.98	0.12-0.15	0.0-2.9		.20	.20	İ	İ	İ
Gr: Grady 0 5 11	5-96 i	i	i	20-35	1.40-1.60	0.06-0.20	0.10-0.13	0.0-2.9		.20	.20	i	i İ	i
Grady 0 5 11 KaA: Kalmia 0	6-99 İ	j	j		i					i	ļ	İ	į	į
Grady 0 5 11 KaA: Kalmia 0	l			 	 		 		 	 	 	 	 	
5 11 KaA: Kalmia 0)-5 İ	i		15-20	1.25-1.45	0.57-1.98	0.10-0.15	0.0-2.9	1.0-3.0	.10	.10	I 5	3	86
11 	5-11	i				0.20-0.57				1.10	1.10			
Kalmia 0	1-62	i				0.06-0.20					1.10	i	İ	i
Kalmia 0		I		 						 				
the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	0-14			I 4-12 I	ı 11 60-1 751	1.98-5.95	ı IO 06-0 101	0 0-2 9	0.5-2.0	.15	ı I 15	1 15	1 2	1 134
1 +7	4-32 I					0.57-1.98			0.5 2.0	1 .24	1 .24	1	1 2	1 131
32	2-60	i				5.95-19.98				1.10	1.10	İ	İ	İ
 		I								 				
)-9			 12 - 20	I I1 30-1 501	0.06-0.20	I I∩ 12=∩ 18I	0.0-2.9	ı I 1.0-3.0	ı I .28	1 28	I I 1		
	9-72 I					0.00-0.20			1 1.0-3.0	1 .32	1.32	1 4		
	72	i		33 00	1.50 1.00	0.00 0.00	0.10 0.21	0.0 0.5		•32	.52			
Lenoir 0	0-8			6-20	1.30-1.50	0.57-1.98	0.14-0.18	0.0-2.9	2.0-4.0	.37	.37	5	5	56
8	3-75			35-60	1.20-1.35	0.06-0.20	0.13-0.15	3.0-5.9		.32	.32	ļ.	!	1
.uB:	l			 	 		 		 	 	 	 	 	
Lucy 0)-24 i	i		1-12	1.30-1.70	5.95-19.98	0.08-0.12	0.0-2.9	0.5-1.0	i .10	1 .10	I 5	I 2	134
	1-35 i	i				1.98-5.95				.24	.24	İ	i I	İ
35	5-70	i	i	20-45	1.40-1.60	0.57-1.98	0.12-0.14	0.0-2.9		.28	.28	i	i	i
orA:				 						 	 	 	 	
•)-7 İ	i		7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	.20	.20	I 5	3	86
	7-12	i				1.98-5.95				.20	1.20	i		
· ·	2-54	i				0.57-1.98					.24	i	İ	i
	1-64	i	i			0.57-1.98				.24		i	i	i
)rB:				 			 		 	 	 	 		
·)-7			I 7–15 i	1.30-1.50	1.98-5.95	 0.07-0.10	0.0-2.9	0.5-2.0	.20	.20	5	3	86
· 7	- ,			, +										
1 12	7-12					1.98-5.95	0.09-0.12	0.0-2.9		.20	.20			
54		 	 	7-18	1.50-1.65				 	.20 .24	.20 .24	 	 	

Physical Properties of the Soils, cont.

Geneva County, Alabama

Map symbol	 Depth	 Sand	 Silt 	 Clay	 Moist		Available water capacity	extensi-	Organic matter	· 			erodi-	
and soil name	 	 		 	bulk density	· -				 Kw	 Kf 		bility group 	
	In	Pct	Pct	Pct	 g/cc	In/hr	In/in	Pct	Pct	¦		¦		
OrC:	 	 	l I	 	 		 	 		l	 	l I	 	
Orangeburg	0-7			7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	1.20	.20	5	3	86
	7-12			7-18	1.50-1.65	1.98-5.95	0.09-0.12	0.0-2.9		1.20	1.20			
İ	12-54			18-35	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9		1.24	.24			
	54-64			20-45	1.60-1.75	0.57-1.98	0.11-0.14	0.0-2.9		.24	.24			
Pm:	 		 	 	 			 				 		
Plummer	0-50			1-10	1.35-1.65	5.95-19.98	0.03-0.10	0.0-2.9	1.0-3.0	1.10	1.10	5	2	134
	50-72			15-30	1.50-1.70	0.20-1.98	0.07-0.15	0.0-2.9		1.15	.15	l	1	
Ra:	 		l 	 	 		 	 				 	 	
Rains	0-12			5-20	1.30-1.60	1.98-5.95	0.10-0.14	0.0-2.9	1.0-6.0	.20	.20	5	3	86
İ	12-40			18-35	1.30-1.60	0.57-1.98	0.11-0.15	0.0-2.9	0.5-1.0	.24	.24	ĺ	İ	İ
	40-62			18-40	1.30-1.50	0.57-1.98	0.10-0.15	0.0-2.9	0.5-1.0	1.28	.28			
	62-79			15-45	1.30-1.60	0.57-1.98	0.10-0.15	0.0-2.9	0.5-1.0	.28	.28	!	1	
RbA:	 		l I	 	 		 	 		1		 	 	
Red Bay	0-6			7-20	1.40-1.55	1.98-5.95	0.07-0.14	0.0-2.9	0.5-2.0	1.20	.20	5	3	86
-	6-20			10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9		1.15	.15	ĺ	İ	İ
	20-52			18-35	1.30-1.50	0.57-1.98	0.12-0.17	0.0-2.9		.17	.17			
	52-72			20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9		.24	.24		1	
RbB:	 		 	 	 			 				 	 	
Red Bay	0-6			7-20	1.40-1.55	1.98-5.95	0.07-0.14	0.0-2.9	0.5-2.0	1.20	.20	5	3	86
_	6-20			10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9		.15	1.15			
İ	20-52			18-35	1.30-1.50	0.57-1.98	0.12-0.17	0.0-2.9		.17	1.17			
	52-72			20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9		.24	.24			
RbC:	 		 	 	 			 				 	 	
Red Bay	0-6			7-20	1.40-1.55	1.98-5.95	0.07-0.14	0.0-2.9	0.5-2.0	1.20	1.20	5	3	86
	6-20			10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9		.15	1.15			
	20-52			18-35	1.30-1.50	0.57-1.98	0.12-0.17	0.0-2.9		.17	.17			
	52-72			20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9		.24	.24			
RsD:	 		 		 			 						
Red Bay	0-6			4-12	1.45-1.60	5.95-19.98	0.06-0.11	0.0-2.9	0.5-2.0	.15	.15	5	2	134
	6-20			10-25	1.30-1.60	0.57-5.95	0.10-0.14	0.0-2.9		.15	1.15			
	20-52			•		0.57-1.98				.17	1.17			
	52-72			20-45	1.40-1.60	0.57-1.98	0.11-0.14	0.0-2.9		.24	.24			
TrB:	' 		Ī	İ	·			! 					İ	
Troup	0-53			•		5.95-19.98			0.5-1.0	1.10	.10	5	2	134
	53-80			15-35	1.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9		1.20	.20		1	
TrC:	! 		l I		ı 			! 						
Troup	0-53			•		5.95-19.98			0.5-1.0	1.10	.10	5	2	134
	53-80			15-35	1.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9		1.20	.20			
<u> </u>			ļ	1						1	l			
	l	l	l	l	l		l	l	l	. I	l	l	I	1